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1 Poisson shape interpolation

Dong Xu, Hongxin Zhang, Qing Wang, Hujun Bao

June 2005 **Proceedings of the 2005 ACM symposium on Solid and physical modeling SPM '05**

Publisher: ACM Press

Full text available: pdf(379.18 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we propose a novel shape interpolation approach based on Poisson equation. We formulate the trajectory problem of shape interpolation as solving Poisson equations defined on a domain mesh. A non-linear gradient field interpolation method is proposed to take both vertex coordinates and surface orientation into account. With proper boundary conditions, the in-between shapes are reconstructed implicitly from the interpolated gradient fields, while traditional methods usually manipula ...

Keywords: domain mesh, gradient field manipulation, poisson equation, shape interpolation, trajectory problem

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Keywords: animation, image editing, image warping, image-based rendering, texture synthesis

13 Articles: Investigating XQuery for querying across database object types

Nancy Wiegand
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Publisher: ACM Press

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March 2006 **Proceedings of the eleventh ACM SIGPLAN symposium on Principles and practice of parallel programming PPoPP '06**
Publisher: ACM Press
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